

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-290-7
Relating to Certification of New Heavy-Duty Motor Vehicle Engines

DETROIT DIESEL CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Detroit Diesel Corporation 1990 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

<u>Engine Family</u>	<u>Displacement</u> <u>Liters (Cubic Inches)</u>		<u>Exhaust Emission Control Systems</u> <u>(Special Features)</u>
LDD0736FZH3	12	(736)	Powertrain Control Module (Turbocharger) (Charge Air Cooler)
LDD0552FZG6	9	(552)	Powertrain Control Module (Turbocharger) (Charge Air Cooler)

Engine models and codes are listed on attachments.

The following are the certification emission standards for these engine families:

<u>Hydrocarbons</u> <u>gm/bhp-hr</u>	<u>Carbon</u> <u>Monoxide</u> <u>gm/bhp-hr</u>	<u>Nitrogen Oxides</u> <u>gm/bhp-hr</u>	<u>Particulates</u> <u>gm/bhp-hr</u>
1.3	15.5	6.0	0.60

The following are the certification emission values for these engine families:

<u>Engine</u> <u>Family</u>	<u>Hydrocarbons</u> <u>gm/bhp-hr</u>	<u>Carbon</u> <u>Monoxide</u> <u>gm/bhp-hr</u>	<u>Nitrogen Oxides</u> <u>gm/bhp-hr</u>	<u>Particulates</u> <u>gm/bhp-hr</u>
LDD0736FZH3	0.4	2.1	5.6	0.49
LDD0552FZG6	0.7	2.9	5.9	0.57

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Health and Safety Code Section 43205.5).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 27 day of January, 1990.



K. D. Drachand, Chief
Mobile Source Division

(For CARB Use Only)

(1990)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

HEAVY-DUTY DIESEL ENGINES

Manufacturer: Detroit Diesel Corporation

Executive Order No.: A-290-7

Engine Family: LDD0552FZG6

Liter (CID): 9 (552)

Emission Control System and (Special Features): PCME, (TC, CAC)

ENGINE MODEL	FUEL INJECTION PUMP MFR PART NO.	ENGINE CODE INJECTOR MFR PART NO.	MAXIMUM RATED HP AT RPM	FUEL RATE mm ³ /STROKE (LBS/HR)	MAXIMUM RATED TORQUE AT RPM	FUEL RATE mm ³ /STROKE (LBS/HR)
6V-92TA DDEC	NA	1A (1) 5234775	350@2100	93.2 (130.2)	1020@1200	101.6 (81.1)
6V-92TA DDEC	NA	2A (1) 5234915	300@2100	82.7 (115.5)	975@1200	97.5 (77.8)
6V-92TA DDEC	NA	3A (1) 5234915	300@1800	93.4 (111.8)	975@1200	98.4 (78.5)
6V-92TA DDEC	NA	4A (1) 5234915	330@2100	87.6 (122.4)	1020@1200	101.6 (81.1)
6V-92TA DDEC	NA	5A (1) 5234915	300@2100	82.7 (115.5)	820@1200	81.7 (65.2)
6V-92TA DDEC	NA	6A (1) 5234850	220@2100	66.6 (93.0)	675@1200	70.9 (56.6)

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(1990)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

HEAVY-DUTY DIESEL ENGINES

Manufacturer: Detroit Diesel Corporation

Executive Order No.: A-290-7

Engine Family: LDD0736FZH3

Liter (CID): 12 (736)

Emission Control System and (Special Features): PCME, (TC, CAC)

ENGINE MODEL	FUEL INJECTION PUMP MFR PART NO.	ENGINE CODE INJECTOR MFR PART NO.	MAXIMUM RATED HP AT RPM	FUEL RATE mm ³ /STROKE (LBS/HR)	MAXIMUM RATED TORQUE AT RPM	FUEL RATE mm ³ /STROKE (LBS/HR)
8V-92TA DDEC	NA	1A (1) 5234775	500@2100	100.1 (186.5)	1470@1200	111.2 (118.3)
8V-92TA DDEC	NA	2A (1) 5234775	450@2100	90.2 (167.9)	1425@1200	106.3 (113.1)
8V-92TA DEC	NA	3A (1) 5234915	400@1800	90.5 (144.4)	1315@1200	99.0 (105.3)
8V-92TA DDEC	NA	4A (1) 5234915	400@2100	82.1 (152.8)	1150@1200	86.6 (92.1)
8V-92TA DDEC	NA	5A (1) 5234915	400@2100	82.1 (152.8)	1330@1200	99.1 (105.5)

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